

## Technical Procedure for Cellular Telephone Deleted Data Extraction

**1.0 Purpose** – The purpose of this procedure is to extract deleted data from cellular telephones compatible with the Cellebrite UFED Physical Analyzer.

**2.0 Scope** - This procedure describes the steps to be taken by personnel of the State Crime Laboratory in extracting data from various types of cellular telephones which may be submitted.

### 3.0 Definitions

- **Cellebrite** – A universal forensic extraction device for cellular telephones.
- **SAN** – Networked array of hard drives used as a digital evidence repository.
- **Case Folder** – A folder designated by case number and located on the SAN, for use in a specific investigation.
- **UFED Physical Analyzer** – A software product created by Cellebrite for the extraction of deleted content from cellular telephones.

### 4.0 Equipment, Materials and Reagents

- Cellebrite unit with catalog of cellular telephone adapter cables
- Thumb drive
- Online SAN drive
- Forensics computer with UFED Physical Analyzer installed

### 5.0 Procedure

**5.1** Wipe the thumb drive with an approved data wiping utility prior to data extraction.

**5.2** Place the telephone into airplane mode (if supported).

**5.3** Follow the instructions in Chapter 3 (Performing Data Extraction) of the UFED Physical Analyzer 2.0 user manual.

**5.4** Once the data has been extracted by the Physical Analyzer, click “Open in Physical Analyzer.”

**5.5** Once the preprocessing component is completed, you will be able to view deleted content from the cellular phone through the Physical Analyzer program.

**5.6** A report should be generated using the instructions in Chapter 5.6 (Generating Reports) of the UFED Physical Analyzer 2.0 user manual.

**5.7** The thumb drive should then be used to transfer the report from the forensic computer to the case folder located on the SAN storage drive.

**5.8 Standards and Controls** – N/A

**5.9 Calibrations** - There is no calibration required due to the variability of cellular telephone models on the market and the lack of a universal standard for performance verification.

**5.10 Maintenance – N/A**

**5.11 Sampling – N/A**

**5.12 Calculations – N/A**

**5.13 Uncertainty of Measurement – N/A**

**6.0 Limitations -** A cellular telephone should be powered off when submitted for analysis. During processing it is necessary to power on the telephone; the device should not be allowed to connect to its cellular network. Allowing the telephone to receive a signal from the cellular network can result in a change in the data contained on the internal memory of the telephone.

**7.0 Safety – N/A**

**8.0 References**

- UFED Physical Analyzer 2.0 user manual

**9.0 Records – N/A**

**10.0 Attachments – N/A**

<b>Revision History</b>		
Effective Date	Version Number	Reason
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